

CLAIMS

1. A reproduction-only disk medium comprising preformed first information, wherein:

5 the first information is formed in the same format as second information recorded on a prescribed recordable disk medium; and

10 a direction along which the first information is formed on the reproduction-only disk medium is opposite to a direction along which the second information is recorded on the prescribed recordable disk medium.

15 2. A reproduction-only disk medium according to claim 1, wherein third information, which represents that the first information is illegal, is preformed.

3. A reproduction-only disk medium according to claim 1, wherein:

20 the first information is formed according to a prescribed modulation rule;

 fourth information, which has a first mark having a code length other than that created according to the prescribed modulation rule, is preformed on the reproduction-only disk medium; and

25 a second mark and a third mark respectively having a different prescribed code length are formed so as to be adjacent the first mark.

30 4. A reproduction-only disk medium according to claim 1, wherein:

 the first information is formed along a first spiral direction of a spiral first track on the reproduction-only disk medium; and

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the first spiral direction is opposite to a second spiral direction of a spiral second track on the prescribed recordable disk medium on which the second information is recorded.

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5. A recordable disk medium on which first information is recorded, wherein:

the first information is recorded in the same format as second information preformed on a prescribed reproduction-only disk medium; and

a direction along which the first information is recorded on the recordable disk medium is opposite to a direction along which the second information is formed on the prescribed reproduction-only disk medium.

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6. A recordable disk medium according to claim 5, comprising a region in which third information is recorded representing whether the first information is legal or illegal.

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7. A recordable disk medium according to claim 5, wherein:

the first information is recorded according to a prescribed modulation rule;

fourth information, which has a first mark having a code length other than that created according to the prescribed modulation rule, is recorded on the recordable disk medium; and

a second mark and a third mark respectively having a different prescribed code length are recorded so as to be adjacent the first mark.

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8. A recordable disk medium according to claim 5, wherein:

the first information is recorded along a first spiral direction of a spiral first track on the recordable disk

medium; and

the first spiral direction is opposite to a second spiral direction of a spiral second track on the prescribed reproduction-only disk medium on which the second information is formed.

5 is formed.

9. An optical disk apparatus reproducing at least first information or second information from a reproduction-only disk medium on which the first information is preformed or a recordable disk medium on which the second information is recorded, the optical disk apparatus comprising:

a motor for rotating the reproduction-only disk medium or the recordable disk medium; and

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a motor drive section for controlling the motor, wherein a rotation direction during reproduction of the reproduction-only disk medium is different from a rotation direction during reproduction of the recordable disk medium.

10. An optical disk apparatus according to claim 9, wherein:

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a first spiral direction of a spiral first track on the reproduction-only disk medium on which the first information is formed is opposite to a second spiral direction of a spiral second track on the recordable disk medium on which the second information is recorded;

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the optical disk apparatus further comprises a disk type identification section for identifying the reproduction-only disk medium and the recordable disk medium from the first spiral direction or the second spiral direction.

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11. An optical disk apparatus according to claim 10, further comprising a rotation direction switching section for switching a rotation direction of the motor according to the first spiral direction or the second spiral direction.

12. An optical disk apparatus according to claim 9, wherein:
the reproduction-only disk medium includes pre-formed third information which represents that the first
information is illegal; and
during reproduction of the reproduction-only disk medium, the third information is ignored by the optical disk apparatus.

10 13. An optical disk apparatus according to claim 10, wherein:
the reproduction-only disk medium includes pre-formed fourth information representing the first spiral direction;
the recordable disk medium includes preformed fifth information representing the second spiral direction; and
a direction identification section identifies the first spiral direction and the second spiral direction based on the fourth information and the fifth information.

20 14. A disk medium identification method for identifying a reproduction-only disk medium including a plurality of pits preformed along a first spiral direction of a spiral first track and a recordable disk medium on which information can be recorded along a second spiral direction of a spiral second track opposite to the first spiral direction, the method comprising the steps of:
performing tracking control by rotating a prescribed disk along a prescribed direction;
integrating a tracking error signal created when performing the tracking control; and
identifying the reproduction-only disk medium and the recordable disk medium according to a polarity of the integrated tracking error signal.

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15. A disk medium identification method for identifying a reproduction-only disk medium including a plurality of pits preformed along a first spiral direction of a spiral first track and a recordable disk medium on which information can be recorded along a second spiral direction of a spiral second track opposite to the first spiral direction, the method comprising the steps of:

5 detecting a first signal from a prescribed disk when the prescribed disk is rotated along a prescribed direction; 10 and

15 identifying the reproduction-only disk medium and the recordable disk medium based on the first signal.

15 16. A disk medium identification method according to claim 15, wherein the first signal includes at least a second signal having a first code length, a third signal having a second code length, and a fourth signal having a third code length, the code lengths being different from one another.

20 17. A disk medium identification method according to claim 16, identifying the reproduction-only disk medium and the recordable disk medium according to at least an order in which the second signal, the third signal, and the fourth 25 signal are reproduced.

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